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EXAMINER

BANTAMOI, ANTHONY

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2423

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PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

DETAILED ACTION

Response to Arguments

1. Applicant's arguments with respect to claim 1 and 10 have been considered but are no persuasive.

With respect to claim 1, Applicant argues that Markel does not describe or disclose retrieving over a network connection a second file comprising interactive element as claimed in independent claim 1 (See Remarks on page 8, lines 1-2). Examiner maintains that Markel teaches that the general concept of creating interactive television experience is by combining video and interactive television content objects for example HTML web pages (col. 1, ll. 19-22 (according to the Newton's Telecom Dictionary 22nd edition a web page is a HTML documents on the web usually many of them make up a website (see world wide web)))which eventually ties the HTML object (324) to an internet source therefore Markel inherently teaches downloading HTML objects from the internet which meets " retrieving over a network connection a second file comprising interactive element" as recited in independent claim 1.

Further Applicant argues that Markel does not disclose a download manager retrieving over a network connection and storing in a mass storage device a portion of a first file comprising video (See Remarks on page 8, lines 3-5).

Examiner maintains that Markel teaches a receiver (300) receiving video from streaming video sources (304) (figure 3, label 304, & col. 4, ll. 44-47) which meets "download manager retrieving over a network connection and storing in a mass storage device a portion of a first file comprising video" because in streaming the entire content

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is not receive at once some portions always precede others therefore Markel adequately teaches download manager retrieving over a network connection and storing in a mass storage device a portion of a first file comprising video.

Applicant argues that Mayer does not teach or suggest retrieving over a network connection a portion of a first file comprising video content the size of the portion responsive to a bandwidth determination of a network connection over which the file is downloaded (See Remarks on page 8, lines 24-27).

Examiner maintains that Mayer teaches dividing a content into two portions and transmitting a first portion leads to the determination of the expected bandwidth needed for subsequent portion transmission (Para. 0031, Il. 4-6, & Para. 0049, Il. 14-17) which adequately meets "retrieving over a network connection a portion of a first file comprising video content the size of the portion responsive to a bandwidth determination of a network connection over which the file is downloaded".

The benefit of obtaining a higher quality of service while managing bandwidth constrains is a benefit that any network that does not have infinite bandwidth will benefit from, therefore there is every reason to combine Mayer with Markel.

With respect top claim 10, Applicant argues that Feigenbaum does not teach terminating retrieval of the first content before the entire content file is retrieved (See Remarks on page 10, lines 3-4).

Examiner maintains that Feigenbaum teaches a download failure after an incomplete download session which meets "terminating retrieval of the firs content file before the entire content file is retrieved" (premature termination (figure 2, label 140)).

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Therefore Feigenbaum teaches terminating retrieval of the first content file before the entire content file is retrieved as recited in claim 10.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1-6, and 8-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over US Patent 7,213,255 to Markel et al. (Markel), in view of US Patent Publication 2001/0029523 to Mcternan et al. (Mcternan), in view of US Patent Publication 2004/0128343 to Mayer. (Mayer), in view of US Patent Publication 2004/0268410 to Barton et al. (Barton).

Regarding claim 1, Markel teaches a mass storage device (combination of 314 & 312). In addition Markel teaches a download manager (300) retrieving over the network connection (inherent because of the streaming source (310) one of the NTSC sources), and storing in the mass storage device (combination of 314 & 312) a portion of a first file (contents of 312) comprising video content and a second file (contents of 314) comprising an interactive element (column 4, 28-31, & 44-47).

In addition Markel teaches a presentation manager (326) (i) retrieving the portion of the first file (311) from mass storage (combination of 314 & 312), (ii) displaying with a media player application (330 (is equivalent to a media player because it is a software version of a set-top-box)) video content represented by the portion of the first file, (iii)

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retrieving the second file (324) and (iv) displaying with a media player application (330 (is equivalent to a media player because it is a software version of a set-top-box)) the interactive element semi-transparently over the video content ((figure 1, labels 104, & 106), & (column 1, 32-34 (teaches a transparent overlay of interactive element over video an obvious variation of semi-transparency))).

However, Markel is silent on a bandwidth measurement device determining the bandwidth of a network connection over which a content file is downloaded; the size of the portion of the first file responsive to the bandwidth determination made by the bandwidth measurement device; the download manager retrieving over the network connection the remainder of the first file in response to the presentation manager displaying the retrieved portion of the first file.

Mcternan teaches a bandwidth measurement device determining the bandwidth of a network connection over which a content file is downloaded (Para. 0045, II. 6 – 10).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the method of Markel to include a bandwidth measurement device determining the bandwidth of a network connection over which a content file is downloaded as taught by Mcternan in order to account for variation in client capabilities, thereby allowing for enhanced media presentations.

Markel and Mcternan are silent on the size of the portion of the first file responsive to the bandwidth determination made by the bandwidth measurement device; the download manager retrieving over the network connection the remainder of

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the first file in response to the presentation manager displaying the retrieved portion of the first file.

Meyer teaches splitting a program into at least two complementary program segments A and B and by downloading download segment A, a determination can be made of the expected available bandwidth to download program B with meets “the size of the portion of the first file responsive to the bandwidth determination made by the bandwidth measurement device” (Para. 0031, ll. 4-6, & Para. 0049, ll. 14-17).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify system of Markel and Mcternan to include the size of the portion of the first file responsive to the bandwidth determination made by the bandwidth measurement device as taught by Mayer in order to support program distribution using partial caching, thereby providing users with a tailored quality experience despite bandwidth limitations.

Markel, Mcternan and Mayer are silent on the download manager retrieving over the network connection the remainder of the first file in response to the presentation manager displaying the retrieved portion of the first file.

Barton teaches pre-storing portions of a video at a local receiver and fetching the remainder as the viewing of the first portion begins (Para. 0041, ll. 5-6) which meets “a download manager retrieving over a network connection the remainder of the first file in response to the presentation manager displaying the retrieved portion of the first file”.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the system of Markel, Mcternan and Mayer to

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include a download manager retrieving over a network connection the remainder of the first file in response to the presentation manager displaying the retrieved portion of the first file as taught by Barton in order to support subscription video-on-demand.

Regarding claim 2, Markel teaches a mass storage device (combination of 314, & 312) which meets “the client system, wherein the mass storage device comprises a redundant array of independent disks”.

Regarding claim 3, Markel teaches the client system wherein the mass storage device comprises a network storage solution (combination of 314, & 312 (storage relying on capacity rather than speed)).

Regarding claim 4, Markel, Mayer, and Barton are silent on the client system, wherein the bandwidth measurement device comprises a timer.

Mcternan inherently teaches the client system, wherein the bandwidth measurement device comprises a timer (Para. 0045, ll. 6 – 10).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the system of Markel, Mayer, and Barton to include the client system, wherein the bandwidth measurement device comprises a timer as taught by Mcternan in order to account for variation in client capabilities, thereby allowing for enhanced media presentations.

Regarding claim 5, Markel, Mayer, and Barton are silent on the client system wherein the download manager and the bandwidth measurement device comprise a single process.

Mcternan teaches the client system wherein the download manager and the bandwidth measurement device comprise a single process (Para. 0045, ll. 6 – 10).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the system of Markel, Mayer, and Barton to include the client system wherein the download manager and the bandwidth measurement device comprise a single process as taught by Mcternan in order to account for variation in client capabilities, thereby allowing for enhanced media presentations.

Regarding claim 6, Markel teaches a browser used to displaying enhanced video content on client device which reads on “the client system wherein the download manager comprises a thread process” (column 7, 41-43 (Note that HTML codes are executed sequentially or as threads)).

Regarding claim 8, Markel teaches an interactive TV produce 326 comprising a software program which reads on “the client system wherein the presentation manager comprises a threaded process” (column 4, 7-8 (program codes are executed in sequence or threads)).

Regarding claim 9, Markel teaches the client system, wherein the presentation manager comprises a Windows Media Player application (330 (is equivalent to a media player because it is a software version of a set-top-box)).

4. Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Markel, in view of Mcternan, in view of Mayer, in view Barton, in view of US Patent Publication 2004/0117839 to Watson et al. (Watson).

Regarding claim 7, Markel, Mcternan, Mayer, and Barton are silent about the client system wherein the download manager comprises one of the groups consisting of an ActiveX control and a JAVA applet.

Watson teaches the client system wherein the download manager comprises one of the groups consisting of an ActiveX control and a JAVA applet (Para. 0103, entire, & figure 2, labels 150, & 160).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the system of Markel, Mcternan, Mayer, and Barton to include the client system wherein the download manager comprises one of the groups consisting of an ActiveX control and a JAVA applet as taught by Watson in order to provide a software player than run independently of any platform.

5. Claims 10-11, and 14-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Markel, in view of Barton, in view of US Patent 6,377,974 to Feigenbaum. (Feigenbaum).

Regarding claim 10, Markel inherently teaches (a) retrieving a first content file (contents of 312) over a network connection (a network connection is inherent because there is a video streaming input (310) one of the NTSC sources (column 4, 44-47)).

In addition Markel teaches (c) storing the retrieved portion of the first content file (contents of 312) in a mass storage device (combination of 314, & 312).

In addition Markel teaches (d) displaying with a media player application (330 (is equivalent to a media player because it is a software version of a set-top-box)) content represented by the portion of the first content file (figure 1, label 104).

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In addition Markel teaches (e) retrieving a second file (324) from mass storage (combination of 314, & 312) representing an interactive element; (f) displaying semi-transparently over the displayed video content an interactive element represented by the second file ((figure 1, labels 104, & 106), & (column 1, 32-34 (teaches a transparent overlay of interactive element over video an obvious variation of semi-transparency))).

Markel is silent on (b) terminating retrieval of the first content file before the entire content file is retrieved; (g) retrieving, in response to step (d), the remainder of the first content file over the network connection.

Barton teaches pre-storing portions of a video at a local receiver and fetching the remainder as the viewing of the first portion begins (Para. 0041, ll. 5-6) which meets “(g) retrieving, in response to step (d), the remainder of the first content file over the network connection”.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the system of Markel, to include (g) retrieving, in response to step (d), the remainder of the first content file over the network connection as taught by Barton in order to support subscription video-on-demand.

Markel and Barton are silent on (b) terminating retrieval of the first content file before the entire content file is retrieved.

Feigenbaum teaches downloading a first portion of a file wherein the download process is terminated prior to the completion of the file (figure 2, steps 130, 140, 150, & 160) which meets “(b) terminating retrieval of the first content file before the entire content file is retrieved”.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the system of Markel, and Barton to include “(b) terminating retrieval of the first content file before the entire content file is retrieved as taught by Feigenbaum in order avoid redownloading the entire file thereby allowing for resuming at the point where the download was terminated.

Regarding claim 11, Markel, and Barton, are silent on (b-a) determining the bandwidth of a network connection over which the content file is retrieved; (b-b) terminating retrieval of the content file before the entire content file is retrieved, the termination responsive to a bandwidth determination made in step (b-a).

Feigenbaum teaches downloading a first portion of a file wherein the download process is terminated prior to the completion of the file (figure 2, steps 130, 140, 150, & 160) which meets “terminating retrieval of the content file before the entire content file is retrieved, the termination responsive to a bandwidth determination made in step (b-a)” (because Feigenbaum is solving a premature download termination problem it inherently covers bandwidth issues since they also cause premature termination during downloads).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the system of Markel, and Barton to include terminating retrieval of the content file before the entire content file is retrieved, the termination responsive to a bandwidth determination made in step (b-a) as taught by Feigenbaum in order avoid redownloading the entire file thereby allowing for resuming at the point where the download was terminated.

Markel, Barton, and Feigenbaum are silent on (b-a) determining the bandwidth of a network connection over which the content file is retrieved.

Mcternan teaches (b-a) determining the bandwidth of a network connection over which the content file is retrieved (Para. 0045, ll. 6 – 10).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the method of Markel, Barton, and Feigenbaum to include (b-a) determining the bandwidth of a network connection over which the content file is retrieved as taught by Mcternan in order to account for variation in client capabilities, thereby allowing for enhanced media presentations.

Regarding claim 14, Markel teaches the method further comprising the step of receiving user input via the displayed interactive element (column 7, 24-25).

Regarding claim 15, Markel's teachings of step (d) and Barton's teachings of step (g) occurs substantially concurrently (see Barton Para. 0041, ll. 5-6).

Regarding claim 16, Markel teaches the method further comprising the step of displaying with a media player application (330 (is equivalent to a media player because it is a software version of a set-top-box)) content represented by the remainder of the first content file (figure 1, label 104 (contents are retrieved in sequence of frames first frames meets first portion and subsequent frames meets remaining portion)).

Regarding claim 17, Markel inherently teaches a computer readable medium containing instructions executed by a computer for efficiently downloading video content and integrating interactivity with the video content, the instructions (figure 3, entire) comprising:

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for retrieving a first content file over a network connection (contents of 312, & 304); storing the retrieved portion of the first content file in a mass storage device (combination of 314, & 312);

displaying with a media player application content represented by the portion of the first content file (330 (is equivalent to a media player because it is a software version of a set-top-box)) content represented by the portion of the first content file (figure 1, label 104);

retrieving a second file from mass storage (combination of 314, & 312) representing an interactive element (324) representing an interactive element; displaying with a media player application semi-transparently over the displayed video content an interactive element represented by the second file ((figure 1, labels 104, & 106), & (column 1, 32-34 (teaches a transparent overlay of interactive element over video an obvious variation of semi-transparency))).

Markel is silent on terminating retrieval of the first content file before the entire content file is retrieved; and retrieving the remainder of the first content file over the network connection in response to the displaying of the portion of the first content file.

Barton teaches pre-storing portions of a video at a local receiver and fetching the remainder as the viewing of the first portion begins (Para. 0041, II. 5-6) which meets “retrieving the remainder of the first content file over the network connection in response to the displaying of the portion of the first content file”.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the system of Markel, to include retrieving the

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remainder of the first content file over the network connection in response to the displaying of the portion of the first content file as taught by Barton in order to support subscription video-on-demand.

Markel and Barton are silent on terminating retrieval of the first content file before the entire content file is retrieved.

Feigenbaum teaches downloading a first portion of a file wherein the download process is terminated prior to the completion of the file (figure 2, steps 130, 140, 150, & 160) which meets "terminating retrieval of the first content file before the entire content file is retrieved".

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the system of Markel, and Barton to include terminating retrieval of the first content file before the entire content file is retrieved as taught by Feigenbaum in order allow fast and efficient resuming at the point where the download was terminated to prevent content corruption due to duplicates.

6. Claim 12 is rejected under 35 U.S.C. 103(a) as being unpatentable over Markel, in view of Barton, in view of US Patent 6,377,974 to Feigenbaum. (Feigenbaum), in view of US Paten Publication 2003/0163702 to Vigue et al. (Vigue).

Regarding claim 12, Markel, Barton, and Feigenbaum are silent on the method wherein step (a) comprises retrieving from a peer-to-peer network content file representing video content.

Vigue teaches a peer-to-peer implementation of a computer network for data sharing which reads on “the method wherein step (a) comprises retrieving from a peer-to-peer network content file representing video content” (Para. 0029, ll. 1-4).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the method Markel, Barton, and Feigenbaum to include the method wherein step (a) comprises retrieving from a peer-to-peer network content file representing video content as taught by Vigue in order to provide secured data sharing.

7. Claim 13 is rejected under 35 U.S.C. 103(a) as being unpatentable over Markel, in view of Barton, in view of US Patent 6,377,974 to Feigenbaum. (Feigenbaum), in view of Mcternan.

Regarding claim 13, Markel, Barton, and Feigenbaum are silent on the method wherein step (a) comprises retrieving from a multicast network a content file representing video content.

Mcternan teaches the method wherein step (a) comprises retrieving from a multicast network a content file representing video content (figure 3, label 370).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the method of Markel, Barton, and Feigenbaum to include the method wherein step (a) comprises retrieving from a multicast network a content file representing video content as taught by Mcternan in order to account for variation in client capabilities, thereby allowing for enhanced media presentations.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ANTHONY BANTAMOI whose telephone number is (571)270-3581. The examiner can normally be reached on Monday - Friday 8-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrew Koenig can be reached on (571) 272 7296. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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